ELSEVIER

Journal of Magnetism and Magnetic Materials 260 (2003) 492–495

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Author index to volume 260

Abarra, E.N., see Acharya, B.R. 261
Acharya, B.R., A. Inomata, E.N. Abarra, A. Ajan, D. Hasegawa and I. Okamoto, Synthetic ferrimagnetic media for over 100 Gb/in^2 longitudinal magnetic recording 261
Adachi, N., see Serrona, L.K.E.B. 406
Adeyeye, A.O., see Ng, V. 53
Ajan, A., see Acharya, B.R. 261
Åkerman, J.J., see Batlle, X. 78
Albano, E.V., see Candia, J. 338
Almeida, M., see Gonçalves, A.P. 473
Amighian, J., see Mozaffari, M. 244
Anand, S., see Upadhyay, C. 188
Anhøj, T.A., B. Bilenberg, B. Thomsen, C.D. Damsgaard, H.K. Rasmussen, C.S. Jacobsen, J. Mygind and S. Mørup, Spin canting and magnetic relaxation phenomena in $Mn_{0.25}Zn_{0.75}Fe_2O_4$ 115
Argyriou, D.N., see Manson, J.L. 462

Barholz, K.-U., see de Haas, O. 380
Basu, S., see Panda, A.K. 70
Batlle, X., B.J. Hattink, A. Labarta, J.J. Åkerman, R. Escudero and I.K. Schuller, The oxidation state at tunnel junction interfaces 78
Baudouin, P. and Y. Houbaert, The study of two different strain paths on the deterioration of the magnetic properties of non-oriented electrical steels 19
Bayard, B., see Sutariya, G.M. 42
Belliard, L., see Mathet, V. 295
Bian, B., see Xi, H. 273
Bilenberg, B., see Anhøj, T.A. 115
Blesa, M.A., see Jacobo, S.E. 37
Boatner, L.A., see Withrow, S.P. 319
Bonfait, G., see Gonçalves, A.P. 473
Bordallo, H.N., see Manson, J.L. 462
Borzi, R.A., see Stewart, S.J. 447
Boust, F., see Pignard, S. 437
Budai, J.D., see Withrow, S.P. 319
Buschow, K.H.J., see Schobinger-Papamantellos, P. 156

Cabanillas, E.D., see Stewart, S.J. 447
Candia, J. and E.V. Albano, Order-disorder criticality, wetting, and morphological phase transitions in the irreversible growth of far-from-equilibrium magnetic films 338
Castellano, G., Thermodynamic potentials for simple magnetic systems 146
Catarino, I., see Gonçalves, A.P. 473
Chapon, L.C., see Manson, J.L. 462
Chappert, C., see Kisielewski, M. 231
Chappert, C., see Mathet, V. 295
Chen, F.H., see Ng, V. 53
Chen, F.R., see Huang, R.-T. 28
Chen, J.W., see Narsinga Rao, G. 375
Chung, S.H., see Hwang, D.G. 400
Civale, L., see Jacobo, S.E. 37
Cohen, L.F., see Yates, K.A. 105

Damsgaard, C.D., see Anhøj, T.A. 115
Das, R.P., see Upadhyay, C. 188
de Haas, O., R. Schäfer, L. Schultz, K.-U. Barholz and R. Mattheis, Rotational magnetization processes in exchange biased $Ni_{81}Fe_{19}/Fe_{50}Mn_{50}$ bilayers 380
Devolder, T., see Mathet, V. 295
Dörr, K., see Sahana, M. 361
Dreyer, M., see Hwang, D.G. 400
Du, Y.W., see Xu, Q.Y. 393
Dunlavy, M.J., see Venus, D. 195

El-Dib, Y.O., Nonlinear hydromagnetic Rayleigh–Taylor instability for strong viscous fluids in porous media 1
Endo, S., see Matsushita, M. 371
Escudero, R., see Batlle, X. 78
Evans, P., C. Scheck, R. Schad and G. Zangari, Electrodeposition of epitaxial nickel films on GaAs 467

Ferré, J., see Kisielewski, M. 231
Ferré, J., see Mathet, V. 295
Feyerherm, R., see Manson, J.L. 462
Flavin, E., see Pignard, S. 437
Fratucello, G.B. and P. Vavassori, Study of the magnetism and the magnetic anisotropy of Fe layers in Ni/Fe/Ni(1 1 1) by Mössbauer spectroscopy 480
Fridman, Y.A., see Spirin, D.V. 141
Fridman, Y.A., see Spirin, D.V. 215
Fronc, K., see Żuberek, R. 386
Fujisaki, R., see Serrona, L.K.E.B. 406

0304-8853/03/$ - see front matter
PII: S0304-8853(03)00167-7

Gabay, A.M. and V.S. Gaviko, Ferromagnetic $Zr_{1-x}Mn_xCo_2$ laves phase compounds 425
Gao, C.X., see Liu, Q.F. 151
Gaviko, V.S., see Gabay, A.M. 425
Gavrilenko, V.I. and R. Wu, Effect of magnetic ordering on optical and magneto-optical properties of Fe/Cr superlattices 330
Ghivelder, L., see Yates, K.A. 105
Godinho, M., see Gonçalves, A.P. 473
Gomez, R.D., see Hwang, D.G. 400
Gonçalves, A.P., J.C. Waerenborgh, M. Almeida, M. Godinho, I. Catarino, G. Bonfait and H. Noël, Magnetic properties of UFe_5Sn single crystals 473
Goto, T., see Niitaka, S. 48
Greneche, J.M., see Oukris, H. 23
Guentherodt, G., see Mathet, V. 295

Hasegawa, D., see Acharya, B.R. 261
Hattink, B.J., see Batlle, X. 78
Hegde, M.S., see Sahana, M. 361
Hiraoka, K., see Moriyoshi, C. 206
Holland, D., see Mekki, A. 60
Hono, K., see Serrona, L.K.E.B. 406
Houbaert, Y., see Baudouin, P. 19
Howard, J.K., see Platt, C.L. 487
Hsu, Y.-N., S. Jeong, D.E. Laughlin and D.N. Lambeth, The effects of Ag underlayer and Pt intermediate layers on the microstructure and magnetic properties of epitaxial FePt thin films 282
Huang, K.-C., see Yu, H.-F. 455
Huang, R.-T., F.R. Chen, J.J. Kai, W. Kai, I.F. Tsu and S. Mao, Diffusion behavior in spin valves studied by high resolution transmission electron microscopy and nanobeam technique 28
Huang, Y.-H., see Luo, F. 173
Huo, G.Y., G.H. Rao and Z.Y. Qiao, Magnetic properties of $Gd_2(Fe_{1-x-y}Co_yTi_x)_{17}$ 431
Hwang, D.G., J.K. Kim, S.W. Kim, S.S. Lee, H. Koo, S.H. Chung, M. Dreyer and R.D. Gomez, Microscopic domain structures in unidirectional and isotropic exchange-coupled NiO/NiFe bilayers 400

Inomata, A., see Acharya, B.R. 261
Itoh, K., see Moriyoshi, C. 206

Jacobo, S.E., L. Civale and M.A. Blesa, Evolution of the magnetic properties during the thermal treatment of barium hexaferrite precursors obtained by coprecipitation from barium ferrate (VI) solutions 37
Jacobsen, C.S., see Anhøj, T.A. 115
Jaščur, M., see Strečka, J. 415
Jeong, S., see Hsu, Y.-N. 282
Jiang, S., see Luo, F. 173

Kai, J.J., see Huang, R.-T. 28
Kai, W., see Huang, R.-T. 28
Kalyanaraman, R., see Withrow, S.P. 319
Kapusta, C., see Yates, K.A. 105
Kazhan, V.A. and V.M. Korovin, Capillary instability of a cylindrical interface of viscous magnetic and non-magnetic fluids subjected to an axial magnetic field 222
Kim, J.K., see Hwang, D.G. 400
Kim, S.W., see Hwang, D.G. 400
Kisielewski, M., A. Maziewski, M. Tekielak, J. Ferré, S. Lemerle, V. Mathet and C. Chappert, Magnetic anisotropy and magnetization reversal processes in Pt/Co/Pt films 231
Kojima, K., see Moriyoshi, C. 206
Koo, H., see Hwang, D.G. 400
Korovin, V.M., see Kazhan, V.A. 222
Kosuge, K., see Niitaka, S. 48
Kronmüller, H., see Zhang, Hong-wei 352

Labarta, A., see Batlle, X. 78
Lambeth, D.N., see Hsu, Y.-N. 282
Lassri, H., see Oukris, H. 23
Laughlin, D.E., see Hsu, Y.-N. 282
Laughlin, D.E., see Platt, C.L. 487
Laughlin, D.E., see Xi, H. 273
Lee, S.S., see Hwang, D.G. 400
Lemerle, S., see Kisielewski, M. 231
Lemerle, S., see Mathet, V. 295
Li, X.-H., see Luo, F. 173
Liao, C.-S., see Luo, F. 173
Liu, Q.F., C.X. Gao, J.J. Xiao and D.S. Xue, Size effects on magnetic properties in $Fe_{0.68}Ni_{0.32}$ alloy nanowire arrays 151
Lofland, S.E., T. Scabarozi, K.V. Ramanujachary and W.H. McCarroll, Unusual magnetic properties of $La_5Mo_4O_{16}$ 184
Lofland, S.E., T. Scabarozi, Y. Moritomo and S. Xu, Magnetism of the double perovskite Sr_2FeMoO_6 181
Loose, A., see Manson, J.L. 462
Luo, F., Y.-H. Huang, C.-H. Yan, S. Jiang, X.-H. Li, Z.-M. Wang and C.-S. Liao, Molten alkali metal nitrate flux to well-crystallized and homogeneous $La_{0.7}Sr_{0.3}MnO_3$ nanocrystallites 173

Madsen, K.N., A reversed gyromagnetic effect in chromium dioxide particles 131
Manson, J.L., L.C. Chapon, H.N. Bordallo, R. Feyerherm, D.N. Argyriou and A. Loose, Spin ordering in the mixed-ligand antiferromagnet $Mn(dca)_2$(pyrazine) 462
Mao, S., see Huang, R.-T. 28
Mathet, V., T. Devolder, C. Chappert, J. Ferré, S. Lemerle, L. Belliard and G. Guentherodt, Morphology and magnetic properties of Pt/Co/Pt sandwiches grown by argon sputter deposition 295
Mathet, V., see Kisielewski, M. 231
Matsushita, M., S. Endo, K. Miura and F. Ono, Evidence of new high-pressure magnetic phases in Fe–Pt Invar alloy 371

Mattheis, R., see de Haas, O. 380
Maziewski, A., see Kisielewski, M. 231
McCarroll, W.H., see Lofland, S.E. 184
McConville, C.F., see Mekki, A. 60
Mehta, R.V., see Sutariya, G.M. 42
Mekki, A., K.A. Ziq, D. Holland and C.F. McConville, Magnetic properties of praseodymium ions in Na_2O–Pr_2O_3–SiO_2 glasses 60
Mercader, R.C., see Stewart, S.J. 447
Mibu, K., see Niitaka, S. 48
Michalak, R., Common phase diagram for low-dimensional superconductors 336
Mishra, D., see Upadhyay, C. 188
Mitamura, H., see Niitaka, S. 48
Mitra, A., see Panda, A.K. 70
Miura, K., see Matsushita, M. 371
Moritomo, Y., see Lofland, S.E. 181
Moriyoshi, C., S. Shimomura, K. Itoh, K. Kojima and K. Hiraoka, Crystal structure and valence transition temperature of $YbInCu_4$ single crystals 206
Mørup, S., see Anhøj, T.A. 115
Motokawa, M., see Serrona, L.K.E.B. 406
Mountfield, K.R., see Xi, H. 273
Mozaffari, M. and J. Amighian, Preparation of Al-substituted Ni ferrite powders via mechanochemical processing 244
Müller, K.-H., see Sahana, M. 361
Mygind, J., see Anhøj, T.A. 115

Nakanishi, A., see Serrona, L.K.E.B. 406
Narsinga Rao, G., S. Roy, R.C. Yang and J.W. Chen, Double peak behavior of resistivity curves in Cd doped $LaMnO_3$ perovskite systems 375
Nenkov, K., see Sahana, M. 361
Ng, V., F.H. Chen and A.O. Adeyeye, Effects of in situ magnetic field application and post-deposition magnetic annealing on sputtered $Fe_{50}Mn_{50}/Ni_{80}Fe_{20}$ bilayers 53
Nietz, V., Prospects for the use of the pulsed fields in neutron research of condensed matter 84
Niitaka, S., K. Yoshimura, K. Kosuge, K. Mibu, H. Mitamura and T. Goto, Magnetic and ^{57}Fe Mössbauer studies of Ca_3FeRhO_6 48
Noël, H., see Gonçalves, A.P. 473
Noyel, G., see Sutariya, G.M. 42

Ohsato, H., see Serrona, L.K.E.B. 406
Okamoto, I., see Acharya, B.R. 261
Okuda, T., see Serrona, L.K.E.B. 406
Ono, F., see Matsushita, M. 371
Oukris, H., H. Lassri, E.H. Sayouty and J.M. Greneche, Magnetic and Mössbauer studies of amorphous Fe–Al–Er–B ribbons 23

Panda, A.K., B. Ravikumar, S. Basu and A. Mitra, Crystallization and soft magnetic properties of rapidly solidified $Fe_{73.5}Nb_3Cu_1Si_{22.5-X}B_X$ ($X=5$, 9, 10, 11.25, 19) alloys 70
Pignard, S., H. Vincent, E. Flavin and F. Boust, Magnetic and electromagnetic properties of RuZn and RuCo substituted $BaFe_{12}O_{19}$ 437
Ping, D.H., see Serrona, L.K.E.B. 406
Pires, A.S.T., Phase diagram for the two-dimensional quantum anisotropic XY model 397
Platt, C.L., K.W. Wierman, J.K. Howard, A.G. Roy and D.E. Laughlin, A comparison of FePt thin films with HfO_2 or MnO additive 487
Punte, G., see Stewart, S.J. 447

Qiao, Z.Y., see Huo, G.Y. 431

Ramanujachary, K.V., see Lofland, S.E. 184
Rao, G.H., see Huo, G.Y. 431
Rasmussen, H.K., see Anhøj, T.A. 115
Ravikumar, B., see Panda, A.K. 70
Riedi, P.C., see Yates, K.A. 105
Ritter, C., see Schobinger-Papamantellos, P. 156
Roy, A.G., see Platt, C.L. 487
Roy, S., see Narsinga Rao, G. 375
Rößler, U.K., see Sahana, M. 361
Rudowicz, C., see Sung, H.W.F. 250

Sahana, M., A. Venimadhav, M.S. Hegde, K. Nenkov, U.K. Rößler, K. Dörr and K.-H. Müller, Magnetic properties and specific heat of $LaMn_{1-x}Ti_xO_{3+\delta}$ ($0<x\leqslant 0.2$) 361
Sakamoto, I., see Serrona, L.K.E.B. 406
Sarah, P. and S.V. Suryanarayana, Magnetostriction in composites of $LiFe_5O_8$–$BaTiO_3$ 211
Sayouty, E.H., see Oukris, H. 23
Scabarozi, T., see Lofland, S.E. 181
Scabarozi, T., see Lofland, S.E. 184
Schad, R., see Evans, P. 467
Schäfer, R., see de Haas, O. 380
Scheck, C., see Evans, P. 467
Schobinger-Papamantellos, P., C. Ritter and K.H.J. Buschow, On the magnetic ordering of $Nd_6Fe_{13-x}Al_{1+x}$ ($x=1-3$) and $La_6Fe_{11}Al_3$ compounds 156
Schuller, I.K., see Batlle, X. 78
Schultz, L., see de Haas, O. 380
Serrona, L.K.E.B., R. Fujisaki, A. Sugimura, T. Okuda, N. Adachi, H. Ohsato, I. Sakamoto, A. Nakanishi, M. Motokawa, D.H. Ping and K. Hono, Enhanced magnetic properties of Nd–Fe–B thin films crystallized by heat treatment 406
Shen, B., see Zhang, Hong-wei 352
Shen, F., see Xu, Q.Y. 393
Shimomura, S., see Moriyoshi, C. 206
Sorge, K.D., see Withrow, S.P. 319
Spirin, D.V. and Y.A. Fridman, Heisenberg magnetic chain with single-ion easy-plane anisotropy: Hubbard operators approach 141
Spirin, D.V. and Y.A. Fridman, Theory for disordered phase in Heisenberg and non-Heisenberg two-dimensional $S=1$ ferromagnets 215

Stewart, S.J., R.A. Borzi, E.D. Cabanillas, G. Punte and R.C. Mercader, Effects of milling-induced disorder on the lattice parameters and magnetic properties of hematite 447
Strečka, J. and M. Jaščur, Thermodynamic properties of the exactly solvable transverse Ising model on decorated planar lattices 415
Sugimura, A., see Serrona, L.K.E.B. 406
Sung, H.W.F. and C. Rudowicz, Physics behind the magnetic hysteresis loop—a survey of misconceptions in magnetism literature 250
Suryanarayana, S.V., see Sarah, P. 211
Sutariya, G.M., D. Vincent, B. Bayard, R.V. Upadhyay, G. Noyel and R.V. Mehta, Magnetic DC field and temperature dependence on complex microwave magnetic permeability of ferrofluids: effect of constituent elements of substituted Mn ferrite 42
Szewczyk, A., see Żuberek, R. 386
Szymczak, H., see Żuberek, R. 386

Tamine, M., Surface and step dynamics of a semi-infinite insulating antiferromagnet system 305
Tekielak, M., see Kisielewski, M. 231
Thompson, J.R., see Withrow, S.P. 319
Thomsen, B., see Anhøj, T.A. 115
Tsu, I.F., see Huang, R.-T. 28

Upadhyay, C., D. Mishra, H.C. Verma, S. Anand and R.P. Das, Effect of preparation conditions on formation of nanophase Ni–Zn ferrites through hydrothermal technique 188
Upadhyay, R.V., see Sutariya, G.M. 42

Vavassori, P., see Fratucello, G.B. 480
Venimadhav, A., see Sahana, M. 361
Venus, D. and M.J. Dunlavy, Dissipation in perpendicularly magnetized ultrathin films studied using the complex AC susceptibility 195
Verma, H.C., see Upadhyay, C. 188
Vincent, D., see Sutariya, G.M. 42
Vincent, H., see Pignard, S. 437

Waerenborgh, J.C., see Gonçalves, A.P. 473
Wang, Z.-M., see Luo, F. 173
Wang, Z.M., see Xu, Q.Y. 393
White, C.W., see Withrow, S.P. 319
White, R.M., see Xi, H. 273
Wierman, K.W., see Platt, C.L. 487
Withrow, S.P., C.W. White, J.D. Budai, L.A. Boatner, K.D. Sorge, J.R. Thompson and R. Kalyanaraman, Ion beam synthesis of magnetic Co–Pt alloys in Al_2O_3 319
Wu, R., see Gavrilenko, V.I. 330

Xi, H., B. Bian, K.R. Mountfield, Z. Zhuang, D.E. Laughlin and R.M. White, Dependence of exchange bias in $Ni_{81}Fe_{19}/Pt_xMn_{1-x}$ ($0<x<0.2$) bilayers on composition and microstructure 273
Xiao, J.J., see Liu, Q.F. 151
Xu, Q.Y., Z.M. Wang, F. Shen, Y.W. Du and Z. Zhang, High-resolution electron microscopy study of $Ni_{81}Fe_{19}$ film with $Co_{33}Cr_{67}$ buffer layer 393
Xu, S., see Lofland, S.E. 181
Xue, D.S., see Liu, Q.F. 151

Yan, C.-H., see Luo, F. 173
Yang, R.C., see Narsinga Rao, G. 375
Yates, K.A., C. Kapusta, P.C. Riedi, L. Ghivelder and L.F. Cohen, Searching for evidence of metallic cluster formation in $La_{0.9}Ca_{0.1}MnO_3$ 105
Yoshimura, K., see Niitaka, S. 48
Yu, H.-F. and K.-C. Huang, Effects of pH and citric acid contents on characteristics of ester-derived $BaFe_{12}O_{19}$ powder 455

Zangari, G., see Evans, P. 467
Zhang Hong-wei, S. Zhang, B. Shen and H. Kronmüller, The magnetization behavior of nanocrystalline permanent magnets based on the Stoner–Wohlfarth Model 352
Zhang, S., see Zhang, Hong-wei 352
Zhang, Z., see Xu, Q.Y. 393
Zhuang, Z., see Xi, H. 273
Ziq, K.A., see Mekki, A. 60
Żuberek, R., K. Fronc, A. Szewczyk and H. Szymczak, FMR and SMFMR investigation of epitaxial Fe/GaAs(0 0 1) thin films with Si and Ge overlayer 386

ELSEVIER

Journal of Magnetism and Magnetic Materials 260 (2003) 496–497

Journal of magnetism and magnetic materials

www.elsevier.com/locate/jmmm

Subject index to volume 260

^{57}Fe Mössbauer study 48

A. Magnetically ordered materials 375
Ab initio calculations 330
AC magnetic susceptibility 195
AC susceptibility measurement 371
Ag thin film 282
Amorphous ribbons 23
Anisotropic magnetoresistace (AMR) 393
Anisotropy 425, 467
Antiferromagnet 48
Antiferromagnetic coupling 261
Antiferromagnetic ordering 156
Antiferromagnetism 462

Ball milling 447
Barium ferrites 37, 455
Barium hexaferrites 37
Biasing materials 273
Bosonization technique 215

Ca_3FeRhO_6 48
Capillary instability 222
$CeCu_5Au$-type structure 473
Ceramics 455
Chromium dioxide 131
Co/Pt 295
Co_3Pt 319
Coercive force 250
Coercivity 151, 250, 352
Cold rolling 19
Colossal magnetoresistance 173, 181
Composite 211
Co–Pt alloys 319
Coordination polymers 462
CoPt 319
$CoPt_3$ 319
Critical exponents 181
Cross-type domain 400
Crystal lattice expansion 447
Crystal structure 156, 206
Crystallization 173
Crystals 84

DC field 42
D. Electric transport 375
Discontinuous 487
Dissipation 195
D. Magnetoresistance 375

Electrodeposition 467
Entropy 146
Epitaxial growth 467
Exact solution 415
Exchange bias 53, 273, 380
Exchange biasing 400
Exchange interactions 305

Fe/Ni (1 1 1) films 480
Fe–Pt Invar alloy 371
FePt 487
FePt magnetic layer 282
Ferrimagnetism 437
Ferrites 115, 188, 244
Ferrofluids 42
Ferrohydrodynamics 222
Ferromagnetic layers 467
Ferromagnetic/antiferromagnetic coupling 273
Ferromagnetism 250, 425
Fine particles 244
FMR 386
Free energy 146

$Gd_2(Fe_{1-x-y}Co_yTi_x)_{17}$ compounds 431
Glass 60
GRM 131

Haldane phase 141
Hard magnetic materials 37, 406
Hard magnets 455
Heating rate 406
Hematite 447
Hexaferrite 437
HfO_2 487
High coercivity 406
High pressure 371
High resolution transmission electron microscopy 28
High-density magnetic recording 261
High-resolution electron microscopy (HREM) 393
Hubbard operators 141, 215
Hydrothermal synthesis 188
Hysteresis loop 250

Inelastic coherent scattering 84
Inelastic neutron scattering 462
Interdiffusion 28
Interface anisotropy 480
Intergrain exchange coupling 352
Ion implantation synthesis 319
IR optical properties 330
Ising model 415
Isotropic Heisenberg and non-Heisenberg ferromagnets 215
Itinerant electrons 425

Kinetics of phase transition 84

$L1_0$ 487
Lanthanum molybdenum oxide 184
Lattice variation measurement 28
Laves phase 425
Local random anisotropy 23
Longitudinal recording media 282
Low dimensionality 336
Low doping 105

Maghemite 131
Magnetic anisotropy 231, 261, 386, 437
Magnetic domain structures 231
Magnetic domains 195, 380
Magnetic field sputtering 53
Magnetic films 338
Magnetic fluids 1
Magnetic force 222
Magnetic interfaces 338
Magnetic intermetallic 473
Magnetic moment 146
Magnetic ordering 330
Magnetic permeability 42
Magnetic phase transition 371
Magnetic properties 19, 37, 70, 431, 455
Magnetic thin film 273

0304-8853/03/$ - see front matter
PII: S0304-8853(03)00168-9

Magnetic ultra-thin films 231
Magnetisation 60, 115
Magnetism 37
Magnetization 23, 244
Magnetization process 380
Magnetization reversal processes 231
Magneto-optical properties 330
Magnetoelastic constants 386
Magnetostriction 211
Manganites 105, 361
Mapping transformation 415
Mechanochemical processing 244
Melt-spun ribbon 70
Meta magnetism 184
Metalloids 70
Metal–metal bonds 184
MFM 400
Microstructure 406
Microwave absorption 437
Mn ferrite 42
MnO 487
Molecular magnetism 462
Molten salts 173
Monolayers and thin films 305
Morin transition 447
Mössbauer effect 23
Mössbauer spectroscopy 115, 188, 480

Nanocrystalline magnetic materials 319
Nanocrystallite 173
Nanoparticles 70, 188
Nanostructures 447
Nanowire arrays 151
$Nd_2Fe_{14}B$ 406
$Nd_6Fe_{13-x}Al_{1+x}$ 156
Neutron diffraction 84, 156, 462
Nickel oxide 400
NMR 336
Non-oriented steels 19
Nonlinear interfacial stability 1

One-dimensional 141
Order-disorder transitions 338
Oxidation at interfaces 78

Paramagnetism 250
Perpendicular magnetization 195
Perpendicular recording media 282
Phase separation 105
Piezomagnetic 211
Porous media 1
Post-deposition magnetic annealing 53
Powder diffraction 437
Pr_2O_3 60
Precursor method 455
Pseudogap 336
Pt thin film 282
PtMn 273
Pulsed magnetic field 84
Pulsing reactor 84

Quadrupolar order 141
Quantum phase transition 397

Rare earth-transition metal alloys 23
Re-entrant spin-glass 361
Recording media 261
Recording particles 131
Reentrant spin glass 371
Remanence enhancement 352
RRM 131

Scaling 181
Signal-to-noise ratio 261
Single pulsed thermal reactor 84
Spallation source 84
Specific heat 361
Spin canting 115
Spin valve 28
Spin waves 305
Spin–flop transition 48
Sputtering 295
Steady-state reactor 84
Structure 431
Superconductivity 336
Super-paramagnetic 173
Superparamagnetic relaxation 115
Surface magnetism 305
Surface-tension-driven flow 222

Temperature dependence 42
Tensile deformation 19
Thermal analysis 244
Thermal annealing 406
Thermal stability 261
Thin films 406
Transport property 70
Transverse field 415
Transverse relaxation 115
Tunnel junctions 78

UFe_5Sn 473
Ultra-strong magnetic field 84
Ultrathin films 195
Ultrathin magnetic films 295
Uranium intermetallic 473

Valence phase transition 206
Viscous liquid thread 222

Wetting 338

X-ray diffraction 206
X-ray photoelectron spectroscopy 60, 78
XY model 397

$YbInCu_4$ 206

Zr–Mn–Co 425